

Serial No.: 10/726,891
Docket No.: 28951.5300

IN THE CLAIMS:

1. (Currently Amended) An ancillary equipment for testing a semiconductor integrated circuit, comprising:

a device measuring unit supported on a board and comprising a measuring section and an analyzing section, the measuring section for exchanging a signal with a device to be measured, which device comprises a semiconductor integrated circuit mounted on a device measuring unit circuit board, the analyzing section for analyzing information from the measuring section by using a programmable device; and

a control/communication card comprising a board different from the board supporting the device measuring unit ~~said device measuring unit circuit board~~, said control/communication card being connected to the device measuring unit to control the device measuring unit and for sending analyzed results back to a general-purpose computer ~~and receiving a diagnostic signal~~, wherein the device measuring unit comprises one of a first connector for connection via a cable to a substrate having a socket for mounting a device to be measured, or a second connector for insertion directly into the substrate.

2. (Previously Presented) The ancillary equipment according to claim 1, wherein the control/communication card comprises a data input section for acquiring data from the device

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measuring unit, a control signal output section for transmitting a control signal to the device measuring unit, and an interface for exchanging a signal with a general-purpose computer.

3. (Previously presented) The ancillary equipment according to claim 1, wherein the device measuring unit comprises a program writing port to allow a program to be written on a programmable device from a general-purpose computer.

4. (Currently Amended) The ancillary equipment according to claim 1, wherein the device measuring unit or the control/communication card comprises a terminal for observing ~~receiving~~ an input/output signal and an internal signal of the device measuring unit.

5. (Currently Amended) The ancillary equipment according to claim 1, wherein the device measuring unit comprises ~~a first connector for connection via a cable with a substrate having a socket for mounting a device to be measured, and a second connector for insertion directly into the substrate~~ both the first connector and the second connector.

6. (Previously Presented) The ancillary equipment according to claim 1, wherein the device measuring unit comprises a plurality of input terminals for receiving signals from a

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plurality of circuits located on the device, and an input signal selector for selecting and switching signals from the plurality of input terminals.

7. (Currently Amended) The ancillary equipment according to claim 1, wherein the control/communication card comprises a ~~device measuring unit diagnosing unit~~ diagnostic data input/output section for transmitting a diagnostic signal for diagnosing the device measuring unit to the device measuring unit and for transferring diagnostic result data from the device measuring unit to a general-purpose computer.

8. (Currently Amended) The ancillary equipment according to claim 1, further comprising a plurality of device measuring units each supported on a separate board for performing a test using one or more of the device measuring units.

9. (Currently Amended) The ancillary equipment according to claim 3 ~~4~~, wherein the device measuring unit comprises a program writing port for permitting a program to be written on ~~the programmable device of the device measuring unit from a general-purpose computer, and the programmable device is~~ a Flash-ROM.

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10. (Previously Presented) The ancillary equipment according to claim 1, wherein the device measuring unit comprises a socket for mounting thereon a device to be measured.

11. (Currently Amended) The ancillary equipment according to claim 1, wherein said control/communication card is configured to receive a ~~the~~ diagnostic signal from a ~~the~~ general-purpose computer.

12. (New) The ancillary equipment according to claim 1, wherein the control/communication card is configured to transmit an external control signal and the measuring section is operable to such an external control signal.

13. (New) The ancillary equipment according to claim 12, wherein the external control signal is selected from the group consisting of a start signal, a control signal, and a diagnostic signal.